

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	245	422/128.ccls.	US-PGPUB; USPAT	OR	OFF	2009/01/21 08:38
L2	302	422/128.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/21 08:38
L3	173	422/127.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/21 08:43
L5	325	b01f11/02.ipcr.	US-PGPUB; USPAT	OR	OFF	2009/01/21 09:01
L6	858	b01f11/02.ipcr.	FPRS; EPO; JPO; DERWENT	OR	OFF	2009/01/21 09:01
L7	2	b01f11/02.ipcr. and (foci or focus)	FPRS; EPO; JPO; DERWENT	OR	OFF	2009/01/21 09:02
L8	6	b01f11/02.ipcr. and (foci \$4 or focu\$4)	FPRS; EPO; JPO; DERWENT	OR	OFF	2009/01/21 09:02
L9	6	b01f11/02.ipcr. and (foc \$4)	FPRS; EPO; JPO; DERWENT	OR	OFF	2009/01/21 09:04
L10	434	b06b1/00.ipcr.	FPRS; EPO; JPO; DERWENT	OR	OFF	2009/01/21 09:05
L11	9	b06b1/00.ipcr. and (foc \$4)	FPRS; EPO; JPO; DERWENT	OR	OFF	2009/01/21 09:05
L12	25	366/127.ccls.	FPRS; EPO; JPO; DERWENT	OR	OFF	2009/01/21 09:06
L13	492	366/127.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/21 09:07
L14	356	366/127.ccls.	US-PGPUB; USPAT	OR	OFF	2009/01/21 09:07
L15	150	366/116.ccls.	US-PGPUB; USPAT	OR	OFF	2009/01/21 09:39
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S2	3	(US-3304063-\$ or US- 2634109-\$ or US- 1842877-\$).did.	USPAT	OR	OFF	2002/09/25 08:50
S3	18	(US-6270641-\$ or US- 6271038-\$ or US- 6238538-\$ or US- 6251343-\$ or US- 5800690-\$ or US- 6167910-\$ or US- 6221654-\$ or US- 6235175-\$ or US- 6153073-\$ or US- 6156181-\$ or US- 6143152-\$ or US- 6150119-\$ or US- 6148508-\$ or US- 6149787-\$ or US- 6129826-\$ or US- 5852495-\$ or US- 5965001-\$ or US- 6150180-\$).did.	USPAT	OR	OFF	2002/09/25 08:52
S4	19	(US-6071081-\$ or US- 6065864-\$ or US- 5443985-\$ or US- 5221326-\$ or US- 5275787-\$ or US- 4849340-\$ or US- 5605653-\$ or US- 5699462-\$ or US- 4792283-\$ or US- 4007010-\$ or US- 4723129-\$ or US- 5375979-\$ or US- 6062681-\$ or US- 6010316-\$ or US- 6192939-\$ or US- 5571410-\$ or US- 6129702-\$ or US- RE36350-\$ or US- 6186659-\$).d"	USPAT	OR	OFF	2002/09/25 08:55
S5	1	("1750245").PN.	USPAT; USOCR	OR	OFF	2002/09/25 08:55

S6	132	("6186660") or ("6184029") or ("6180536") or ("6170981") or ("6156273") or ("6136272") or ("6101715") or ("6082891") or ("6036927") or ("6031286") or ("5993750") or ("5980704") or ("5971158") or ("5928880") or ("5904424") or ("5803600") or ("5727618") or ("5681484") or ("5205902") or ("5803600") or ("6176991") or ("5957579") or ("5842787") or ("5573334") or ("4521117") or ("3849075") or ("3304063") or ("2634109") or ("1842877") or ("6194900") or ("5965001") or ("5932100") or ("5800690") or ("4908112") or ("4397100") or ("6213151") or ("6210986") or ("6209928") or ("6200814") or ("6194066") or ("6192939") or ("6192596") or ("6190034") or ("6176962") or ("6174675") or ("6159739") or ("6158712") or ("6156181") or ("6150180") or ("6150119") or ("6146103") or ("6134950") or ("6132685") or ("6130098") or ("6129973") or ("6129854") or ("6129826") or	USPAT; USOCR	OR	OFF	2002/09/25 08:57
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S8	33	(US-5646039-\$ or US-5523058-\$ or US-4678340-\$ or US-4688306-\$ or US-4641155-\$ or US-6187211-\$ or US-6081064-\$ or US-5794023-\$ or US-5738635-\$ or US-5563346-\$ or US-5535006-\$ or US-5452267-\$ or US-5030872-\$ or US-4888861-\$ or US-	USPAT	OR	OFF	2002/09/25 09:00

		4829209-\$ or US- 4395652-\$ or US- 4467237-\$ or US- 4586512-\$ or US- 4558249-\$ or US- 4446396-\$ or US- 4012952-\$ or US- 2956184-\$ or US- 3624896-\$ or US- 5174296-\$ or US- 5780748-\$ or US- 5466932-\$).did. or (US- 4938742-\$ or US- 4961252-\$ or US- 4541429-\$ or US- 6010316-\$ or US- 5644184-\$ or US- 4879011-\$ or US- 4692776-\$).did.				
S9	62	(US-5965237-\$ or US- 5904424-\$ or US- 5858567-\$ or US- 5863671-\$ or US- 5858188-\$ or US- 5811062-\$ or US- 6210514-\$ or US- 6184608-\$ or US- 6082185-\$ or US- 5824186-\$ or US- 5783856-\$ or US- 5771321-\$ or US- 5469020-\$ or US- 5534328-\$ or US- 3856270-\$ or US- 3823457-\$ or US- 4392362-\$ or US- 5839467-\$ or US- 5705070-\$ or US- 5585011-\$ or US- 5369007-\$ or US- 5223219-\$ or US- 5077017-\$ or US- 5039617-\$ or US- 4946795-\$ or US- 4868129-\$).did. or (US- 4756884-\$ or US- 4618476-\$ or US- 4610170-\$ or US- 4596780-\$ or US- 6296020-\$ or US- 6274337-\$ or US- 6071478-\$ or US- 5099311-\$ or US- 5070606-\$ or US- 5372946-\$ or US- 5028142-\$ or US- 5016707-\$ or US-	USPAT	OR	OFF	2002/09/25 09:03

		4728500-\$ or US- 6376181-\$ or US- 6368871-\$ or US- 4124478-\$ or US- 6290685-\$ or US- 6287517-\$ or US- 5376252-\$ or US- 3901731-\$ or US- 6171850-\$ or US- 6190034-\$ or US- 6184029-\$ or US- 6176962-\$ or US- 6168948-\$ or US- 5595712-\$ or US- 6143247-\$).did. or (US- 6126804-\$ or US- 6103537-\$ or US- 6063589-\$ or US- 6054034-\$ or US- 5698299-\$ or US- 5234586-\$ or US- 6388231-\$ or US- 6391559-\$).did. or (US- 5935401-\$ or US- 5858188-\$ or US- 5904424-\$).did.				
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S20	8	((US-5632876-\$ or US- 5599432-\$ or US- 5587128-\$ or US- 5573334-\$ or US- 5508234-\$ or US- 5500071-\$ or US- 5498392-\$ or US- 5486335-\$ or US- 5482598-\$ or US- 5427946-\$ or US- 5327777-\$ or US- 5304487-\$ or US- 5296375-\$ or US- 5205902-\$ or US- 4963498-\$ or US- 4908112-\$ or US- 4521117-\$ or US- 4516632-\$ or US- 4397100-\$ or US- 3849075-\$ or US- 6271038-\$ or US- 6270641-\$ or US- 6251343-\$ or US- 6238538-\$ or US- 6235175-\$ or US- 6221654-\$).did. or (US- 6167910-\$ or US-	USPAT	OR	OFF	2003/01/10 15:09

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S21	1	((US-2634109-\$ or US- 3304063-\$ or US- 1842877-\$ or US- 3533594-\$ or US- 3825645-\$ or US- 3381336-\$ or US- 2734224-\$ or US- 3020579-\$ or US- 1409259-\$ or US- 3624896-\$ or US- 2956184-\$ or US- 3799742-\$).did.) and "boundary layer"	USOCR	OR	OFF	2003/01/10 15:10
S27	2	((US-3799742-\$ or US- 1842877-\$ or US- 2634109-\$ or US- 3304063-\$ or US- 2956184-\$ or US- 3624896-\$ or US- 1409259-\$ or US- 2734224-\$ or US- 3020579-\$ or US- 3533594-\$ or US- 3381336-\$ or US- 3825645-\$).did.) and electrical	USOCR	OR	OFF	2003/05/13 11:58

S47	9	((US-5932100-\$ or US-5904424-\$ or US-5858187-\$ or US-5716852-\$ or US-4397100-\$ or US-6270641-\$ or US-6148508-\$ or US-6186659-\$ or US-4792283-\$ or US-4879011-\$ or US-6368871-\$ or US-6274337-\$ or US-6176991-\$ or US-5839467-\$ or US-4868129-\$ or US-4596780-\$ or US-5904824-\$ or US-6331073-\$ or US-6524790-\$ or US-6561968-\$ or US-6260579-\$ or US-6193866-\$ or US-6116257-\$ or US-6508273-\$ or US-6475722-\$ or US-6406605-\$).did. or (US-6344120-\$ or US-5429728-\$ or US-5447617-\$ or US-5092972-\$ or US-5126022-\$ or US-4911817-\$ or US-6506609-\$ or US-6197176-\$ or US-5626734-\$ or US-4390403-\$ or US-6136272-\$ or US-6134950-\$ or US-6042709-\$ or US-6010316-\$ or US-5974867-\$ or US-5971158-\$ or US-5965410-\$ or US-5965001-\$ or US-5957579-\$ or US-6361747-\$ or US-4488816-\$ or US-6130098-\$ or US-6129826-\$ or US-6120665-\$ or US-6080295-\$ or US-6065864-\$ or US-6048734-\$).did. or (US-6150119-\$ or US-6186660-\$).did.) and (acoustic or sound)	USPAT	OR	OFF	2003/05/27 16:50
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S48	1	((US-3687834-\$ or US-2772862-\$ or US-2714186-\$).did.) and (acoustic or sound)	USOCR	OR	OFF	2003/05/27 16:51
S49	0	366/dig.4.ccls.	USOCR	OR	OFF	2003/05/27 16:51
S50	3	366/dig.4.ccls.	USPAT	OR	OFF	2003/05/27 16:51
S51	1	("4571087").PN.	USPAT; USOCR	OR	OFF	2003/06/14 18:09
S52	285	(366/127).CCLS.	USPAT; USOCR	OR	OFF	2003/06/14 18:47
S53	5	("4939405" "5215446" "5688405" "6237619" "6431212").PN.	USPAT	OR	OFF	2003/06/14 18:24
S54	0	"6568052".URPN.	USPAT	OR	OFF	2003/06/14 18:26
S55	1	("6210128").PN.	USPAT; USOCR	OR	OFF	2003/06/14 18:26
S56	12	("3840758" "3963380" "4115036" "4296417" "4395719" "5085562" "5525041" "5674742" "5736100" "6003388" "6010316" "6091406").PN.	USPAT	OR	OFF	2003/06/14 18:26
S57	342	(366/108).CCLS.	USPAT; USOCR	OR	OFF	2003/06/14 19:00
S58	255	(366/145).CCLS.	USPAT; USOCR	OR	OFF	2003/06/14 18:57
S59	2	((366/145).CCLS.) AND sonic	USPAT	OR	OFF	2003/06/14 18:58
S60	594	((366/108).CCLS.) or ((366/145).CCLS.)	USPAT	OR	OFF	2003/06/14 18:58
S61	314966	(((366/108).CCLS.) or ((366/145).CCLS.)) and pressure sensor	USPAT	OR	OFF	2003/06/14 18:58
S62	8	(((366/108).CCLS.) or ((366/145).CCLS.)) and "pressure sensor"	USPAT	OR	OFF	2003/06/14 18:59
S63	615	((366/127).CCLS.) or ((366/108).CCLS.)	USPAT	OR	OFF	2003/06/14 19:00
S64	6	(((366/127).CCLS.) or ((366/108).CCLS.)) and "pressure sensor"	USPAT	OR	OFF	2003/06/14 19:09
S65	91	"stepper motor" and "ultrasonic" and ("mix" or "agitate")	USPAT	OR	OFF	2003/06/14 20:18

S66	21	("1734975" "3301535" "3325976" "3552536" "3811623" "3837805" "3951605" "4022579" "4259290" "4582990" "4919807" "4973876" "5176446" "5206171" "5380487" "5413770" "5446263" "5496517" "5722444" "5736100" "5779985").PN.	USPAT	OR	OFF	2003/06/14 19:18
S67	0	"stepper motor" and "5779985".pn.	USPAT	OR	OFF	2003/06/14 20:17
S68	41	"stepper motor" and "ultrasonic" and ("mix" or "agitate") and tubes	USPAT	OR	OFF	2003/06/14 20:18
S69	30	("2565159" "2632634" "2855526" "2864592" "2950725" "3066686" "3194640" "3396286" "3786890" "4307964" "4488816" "4834124" "5037481" "5484573" "5523058" "5688406" "5736100" "5779985" "5890802" "6010316" "6100084" "6210128" "6244738" "6277332" "6284113" "6316747" "6361747" "6413783" "6515030" "RE31779").PN.	US-PGPUB; USPAT	OR	OFF	2005/09/13 13:12
S70	33	("0001779" "2565159" "2632634" "2855526" "2864592" "2950725" "3066686" "3194640" "3396286" "3614069" "3786890" "4307964" "4488816" "4571087" "4834124" "5026167" "5037481" "5484573" "5523058" "5639423" "5688406" "5736100" "5779985" "5890802" "6010316" "6100084" "6210128" "6244738" "6277332" "6284113" "6361747" "6413783" "6515030").PN.	US-PGPUB; USPAT	OR	OFF	2005/09/13 13:12
S71	6	S70 not S69	US-PGPUB; USPAT	OR	OFF	2005/09/13 13:12

S72	41	(US-3720402-\$ or US-3743523-\$ or US-3762368-\$ or US-3851861-\$ or US-4117550-\$ or US-4307964-\$ or US-4433916-\$ or US-4463708-\$ or US-4488816-\$ or US-4571087-\$ or US-4879011-\$ or US-5276376-\$ or US-5395592-\$ or US-5484573-\$ or US-5523058-\$ or US-5626734-\$ or US-5646039-\$ or US-5674742-\$ or US-5688405-\$ or US-5688406-\$ or US-5736100-\$ or US-5902489-\$ or US-5965001-\$ or US-6003388-\$ or US-6010316-\$ or US-6042709-\$).did. or (US-6048734-\$ or US-6080295-\$ or US-6193866-\$ or US-6210128-\$ or US-6277332-\$ or US-6361747-\$ or US-6413783-\$ or US-6440725-\$ or US-6515030-\$ or US-6568052-\$ or US-RE29161-\$).did. or (US-2632634-\$ or US-2714186-\$ or US-2772862-\$ or US-2864592-\$).did.	USPAT; USOCR	AND	ON	2005/09/13 13:12
S73	60	S69 or S70 or S71 or S72	US-PGPUB; USPAT	AND	ON	2005/09/13 13:14
S74	5	laugharn and garrison	US-PGPUB; USPAT	AND	ON	2005/09/13 13:14
S75	14	S73 and sensor	US-PGPUB; USPAT	AND	ON	2005/09/13 13:32
S76	17	S73 and ("100" same (kilohertz or khz or megahertz or mhz))	US-PGPUB; USPAT	AND	ON	2005/09/13 13:52
S77	23	("2714186" "3169013" "3176964" "3301535").PN. OR ("3614069").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2005/09/13 13:46

S78	60	(US-6515030-\$ or US-6413783-\$ or US-6361747-\$ or US-6568052-\$ or US-6440725-\$ or US-6316747-\$ or US-6284113-\$ or US-6277332-\$ or US-6244738-\$ or US-6210128-\$ or US-6193866-\$ or US-6100084-\$ or US-6080295-\$ or US-6048734-\$ or US-6042709-\$ or US-6010316-\$ or US-6003388-\$ or US-5965001-\$ or US-5902489-\$ or US-5890802-\$ or US-5779985-\$ or US-5736100-\$ or US-5688406-\$ or US-5688405-\$ or US-5674742-\$ or US-5646039-\$).did. or (US-5639423-\$ or US-5626734-\$ or US-5523058-\$ or US-5484573-\$ or US-5395592-\$ or US-5276376-\$ or US-5037481-\$ or US-5026167-\$ or US-4879011-\$ or US-4834124-\$ or US-4571087-\$ or US-RE31779-\$ or US-4488816-\$ or US-4463708-\$ or US-4433916-\$ or US-4307964-\$ or US-4117550-\$ or US-RE29161-\$ or US-3876890-\$ or US-3851861-\$ or US-3786890-\$ or US-3762368-\$ or US-3743523-\$ or US-3720402-\$ or US-3614069-\$ or US-3396286-\$ or US-3194640-\$).did. or (US-3066686-\$ or US-2950725-\$ or US-2864592-\$ or US-2855526-\$ or US-	USPAT	AND	ON	2005/09/13 13:48
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		2632634-\$ or US- 2565159-\$ or US- 0001779-\$).did.				
S79	69	(US-6515030-\$ or US- 6413783-\$ or US- 6361747-\$ or US- 6568052-\$ or US- 6440725-\$ or US- 6316747-\$ or US- 6284113-\$ or US- 6277332-\$ or US- 6244738-\$ or US- 6210128-\$ or US- 6193866-\$ or US- 6100084-\$ or US- 6080295-\$ or US- 6048734-\$ or US- 6042709-\$ or US- 6010316-\$ or US- 6003388-\$ or US- 5965001-\$ or US- 5902489-\$ or US- 5890802-\$ or US- 5779985-\$ or US- 5736100-\$ or US- 5688406-\$ or US- 5688405-\$ or US- 5674742-\$ or US- 5646039-\$).did. or (US- 5639423-\$ or US- 5626734-\$ or US- 5523058-\$ or US- 5484573-\$ or US- 5395592-\$ or US- 5276376-\$ or US- 5037481-\$ or US- 5026167-\$ or US- 4879011-\$ or US- 4834124-\$ or US- 4571087-\$ or US- RE31779-\$ or US- 4488816-\$ or US- 4463708-\$ or US- 4433916-\$ or US- 4307964-\$ or US- 4117550-\$ or US- RE29161-\$ or US- 3876890-\$ or US- 3851861-\$ or US- 3786890-\$ or US- 3762368-\$ or US- 3743523-\$ or US- 3720402-\$ or US- 3614069-\$ or US- 3396286-\$ or US- 3194640-\$).did. or (US- 3066686-\$ or US-	US-PGPUB; USPAT; USOCR	AND	ON	2005/09/13 13:48

		2950725-\$ or US- 2864592-\$ or US- 2855526-\$ or US- 2632634-\$ or US- 2565159-\$ or US- 0001779-\$).did.				
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		"5688405" "5688406" "5693785" "5705018" "5707799" "5711888" "5714380" "5716852" "5722444" "5736100" "5739432" "5741639" "5746978" "5770029" "5777141" "5779985" "5798215" "5837303" "5842787" "5843767" "5846727" "5856174" "5858188" "5863502" "5863801" "5869004" "5874046" "5880071" "5882903" "5890802" "5921678" "5922591" "5928880" "5948673" "5951456" "5955351" "5972710" "5976824" "6010316" "6030581" "6042709" "6043080" "6068752").PN. OR ("6080295" "6090545" "6100084" "6153073" "6156273" "6168948" "6197595" "6210128" "6244738" "6261431" "6277332" "6284113" "6361747" "6413783" "6515030" "RE31779" "Re33524").PN. OR ("2002/0009015" "2004/0264293" "2005/0132775" "2005/0150830" "2565159" "2855526" "2864592" "3169013" "3194640" "3396286" "3614069" "3743523" "3851861" "4307964" "4488816" "4571087" "4879011" "5026167" "5276376" "5395592" "5484573" "5523058" "5626734" "5646039" "5674742" "5688405" "5688406" "5736100" "5779985" "5965001" "6003388" "6010316" "6090295" "6100084" "6244738" "6277332" "6361747" "6413783" "6440725" "6515030" "6719449").URPN.					
S81	0	S75 and ("100" adj2 (kilohertz or khz or megahertz or mhz))	US-PGPUB; USPAT	AND	ON	2005/09/13 13:52	

S82	0	S75 and ("100" near3 (kilohertz or khz or megahertz or mhz))	US-PGPUB; USPAT	AND	ON	2005/09/13 13:52
S83	63	S80 and ("100" near3 (kilohertz or khz or megahertz or mhz))	US-PGPUB; USPAT	AND	ON	2005/09/13 13:53
S84	56	S80 and ("100" adj2 (kilohertz or khz or megahertz or mhz))	US-PGPUB; USPAT	AND	ON	2005/09/13 13:53
S85	26	S80 and ("200" adj2 (kilohertz or khz or megahertz or mhz))	US-PGPUB; USPAT	AND	ON	2005/09/13 13:53
S86	12	S80 and ("300" adj2 (kilohertz or khz or megahertz or mhz))	US-PGPUB; USPAT	AND	ON	2005/09/13 13:53
S87	11	S80 and ("400" adj2 (kilohertz or khz or megahertz or mhz))	US-PGPUB; USPAT	AND	ON	2005/09/13 13:53
S88	23	S80 and ("500" adj2 (kilohertz or khz or megahertz or mhz))	US-PGPUB; USPAT	AND	ON	2005/09/13 13:54
S89	15	S80 and ("600" adj2 (kilohertz or khz or megahertz or mhz))	US-PGPUB; USPAT	AND	ON	2005/09/13 13:54
S90	1	S80 and ("700" adj2 (kilohertz or khz or megahertz or mhz))	US-PGPUB; USPAT	AND	ON	2005/09/13 13:54
S91	11	S80 and ("800" adj2 (kilohertz or khz or megahertz or mhz))	US-PGPUB; USPAT	AND	ON	2005/09/13 13:54
S92	6	S80 and ("900" adj2 (kilohertz or khz or megahertz or mhz))	US-PGPUB; USPAT	AND	ON	2005/09/13 13:54
S93	37	S80 and ("10" adj2 (megahertz or mhz))	US-PGPUB; USPAT	AND	ON	2005/09/13 13:55
S94	13	S80 and ("20" adj2 (megahertz or mhz))	US-PGPUB; USPAT	AND	ON	2005/09/13 13:55
S95	12	S80 and ("30" adj2 (megahertz or mhz))	US-PGPUB; USPAT	AND	ON	2005/09/13 13:55
S96	16	S80 and ("40" adj2 (megahertz or mhz))	US-PGPUB; USPAT	AND	ON	2005/09/13 13:55
S97	7	S80 and ("50" adj2 (megahertz or mhz))	US-PGPUB; USPAT	AND	ON	2005/09/13 13:55
S98	0	S80 and ("60" adj2 (megahertz or mhz))	US-PGPUB; USPAT	AND	ON	2005/09/13 13:55
S99	0	S80 and ("70" adj2 (megahertz or mhz))	US-PGPUB; USPAT	AND	ON	2005/09/13 13:55
S100	0	S80 and ("75" adj2 (megahertz or mhz))	US-PGPUB; USPAT	AND	ON	2005/09/13 13:55

S101	5	S80 and ("80" adj2 (megahertz or mhz))	US-PGPUB; USPAT	AND	ON	2005/09/13 13:56
S102	0	S80 and ("90" adj2 (megahertz or mhz))	US-PGPUB; USPAT	AND	ON	2005/09/13 13:56
S103	14	S80 and ("100" adj2 (megahertz or mhz))	US-PGPUB; USPAT	AND	ON	2005/09/13 13:56
S104	0	I30-I40	US-PGPUB; USPAT	AND	ON	2005/09/13 13:56
S105	0	I30-I40	US-PGPUB; USPAT	OR	ON	2005/09/13 13:56
S106	68	S93 S94 S95 S96 S97 S103	US-PGPUB; USPAT	OR	ON	2005/09/13 14:14
S107	0	S105 and (ultrasonic or sonic)	US-PGPUB; USPAT	OR	ON	2005/09/13 14:14
S108	60	S106 and (ultrasonic or sonic)	US-PGPUB; USPAT	OR	ON	2005/09/13 14:14
S109	49	(US-20020009015-\$ or US-20040264293-\$ or US-20050132775-\$ or US-20050150830-\$).did. or (US-2565159-\$ or US-2855526-\$ or US-2864592-\$ or US-3169013-\$ or US-3194640-\$ or US-3396286-\$ or US-3614069-\$ or US-3743523-\$ or US-3851861-\$ or US-4307964-\$ or US-4488816-\$ or US-4571087-\$ or US-4879011-\$ or US-4983189-\$ or US-5026167-\$ or US-5276376-\$ or US-5395592-\$ or US-5484573-\$ or US-5523058-\$ or US-5626734-\$ or US-5646039-\$ or US-5674742-\$ or US-5688405-\$ or US-5688406-\$ or US-5736100-\$ or US-5739432-\$).did. or (US-5779985-\$ or US-5831166-\$ or US-5965001-\$ or US-6003388-\$ or US-6010316-\$ or US-6039309-\$ or US-6086821-\$ or US-6090295-\$ or US-	US-PGPUB; USPAT	AND	ON	2005/09/13 15:59

		6100084-\$ or US- 6210128-\$ or US- 6244738-\$ or US- 6277332-\$ or US- 6361747-\$ or US- 6413783-\$ or US- 6440725-\$ or US- 6515030-\$ or US- 6719449-\$ or US- 6764860-\$ or US- 6859050-\$).did.				
S110	17	S109 and sensor	US-PGPUB; USPAT	AND	ON	2005/09/13 16:00
S111	14	S109 and sensor and ultrasonic	US-PGPUB; USPAT	AND	ON	2005/09/14 09:29
S112	160	366/132.ccls.	US-PGPUB; USPAT	AND	ON	2005/09/14 09:31
S113	187	366/132.ccls.	US-PGPUB; USPAT; USOCR	AND	ON	2005/09/14 09:31
S114	13	366/132.ccls. and vibrator	US-PGPUB; USPAT; USOCR	AND	ON	2005/09/14 09:32
S115	49	366/132.ccls. and sensor	US-PGPUB; USPAT; USOCR	AND	ON	2005/09/14 09:37
S116	36	366/151.1.ccls. and sensor	US-PGPUB; USPAT; USOCR	AND	ON	2005/09/14 09:39
S117	0	366/151.1,152.1,ccls. and charateristic	US-PGPUB; USPAT; USOCR	AND	ON	2005/09/14 09:40
S118	0	366/152.1,ccls. and charateristic	US-PGPUB; USPAT; USOCR	AND	ON	2005/09/14 09:40
S119	0	366/151.1,152.1.ccls. and charateristic	US-PGPUB; USPAT; USOCR	AND	ON	2005/09/14 09:41
S120	0	366/152.1.ccls. and charateristic	US-PGPUB; USPAT; USOCR	AND	ON	2005/09/14 09:40
S121	0	366/152.1.ccls. and charateristic	US-PGPUB; USPAT; USOCR	AND	ON	2005/09/14 09:40
S122	1017	charateristic	US-PGPUB; USPAT; USOCR	AND	ON	2005/09/14 09:41
S123	2070398	Characteristic	US-PGPUB; USPAT; USOCR	AND	ON	2005/09/14 09:41
S124	112	366/151.1,152.1.ccls. and Characteristic	US-PGPUB; USPAT; USOCR	AND	ON	2005/09/14 09:44
S125	4	"5993671"	US-PGPUB; USPAT; USOCR	AND	ON	2005/09/14 09:44

S126	44	("0001779" "2565159" "2632634" "2855526" "2864592" "2950725" "3066686" "3194640" "3396286" "3614069" "3743523" "3876890" "4307964" "4488816" "4571087" "4834124" "4879011" "4983189" "5026167" "5037481" "5395592" "5484573" "5523058" "5639423" "5688406" "5736100" "5779985" "5831166" "5890802" "5993671" "6003388" "6010316" "6039309" "6086821" "6100084" "6210128" "6224778" "6244738" "6277332" "6284113" "6361747" "6413783" "6440725" "6515030").PN.	USPAT	OR	OFF	2006/03/16 12:52
S127	50	(US-20050150830-\$ or US-20050132775-\$ or US-20040264293-\$ or US-20020009015-\$).did. or (US-6859050-\$ or US- 6764860-\$ or US- 6719449-\$ or US- 6515030-\$ or US- 6440725-\$ or US- 6413783-\$ or US- 6361747-\$ or US- 6277332-\$ or US- 6244738-\$ or US- 6224778-\$ or US- 6210128-\$ or US- 6100084-\$ or US- 6090295-\$ or US- 6086821-\$ or US- 6039309-\$ or US- 6010316-\$ or US- 6003388-\$ or US- 5965001-\$ or US- 5831166-\$ or US- 5779985-\$ or US- 5739432-\$ or US- 5736100-\$ or US- 5688406-\$ or US- 5688405-\$ or US- 5674742-\$ or US- 5646039-\$).did. or (US- 5626734-\$ or US- 5523058-\$ or US- 5484573-\$ or US- 5395592-\$ or US-	US-PGPUB; USPAT	OR	OFF	2008/06/07 15:39

		5276376-\$ or US- 5026167-\$ or US- 4983189-\$ or US- 4879011-\$ or US- 4571087-\$ or US- 4488816-\$ or US- 4307964-\$ or US- 3851861-\$ or US- 3743523-\$ or US- 3614069-\$ or US- 3396286-\$ or US- 3194640-\$ or US- 3169013-\$ or US- 2864592-\$ or US- 2855526-\$ or US- 2565159-\$).did.				
S128	17	S127 and (focus or foci for focused or vertex)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/07 15:40
S129	511	("2565159" "2578505" "2632634" "2766881" "2855526" "2864592" "2907455" "2950725" "3056589" "3066686" "3109721" "3117768" "3118979" "3194640" "3396286" "3463321" "3464672" "3544733" "3573781" "3614069" "3625884" "3638087" "3650094" "3683212" "3746897" "3753886" "3799742" "3805596" "3840758" "3876890" "3946829" "3963380" "4013552" "4055491" "4071225" "4114194" "4115036" "4168295" "4171852" "4249146" "4275363" "4280823" "4282532" "4296417" "4302728" "4307964" "4308547" "4339247" "4346011" "4369100" "4383264" "4390976" "4395719" "4398925" "4426451" "4433916" "4468680" "4488816" "4523682" "4554477" "4556467" "4559826" "4562413" "4571087" "4620917" "4642220" "4654546" "4673512" "4687962" "4688199" "4703213" "4736130"	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/07 15:42

"4747920"	"4789628"
"4834124"	"4836684"
"4855240"	"4864547"
"4868521"	"4879011"
"4885783"	"4888565"
"4891120"	"4895500"
"4908112"	"4908318"
"4914256"	"4914641"
"4915812"	"4918025"
"4921952"	"4923978"
"4941135"	"4963498"
"4983189"	"4983523"
"5006266"	"5026167"
"5033033"	"5037481"
"5061446"	"5065066"
"5076854"	"5085562"
"5085783"	"5087379"
"5114858"	"5124444"
"5130031"	"5143084"
"5144146"	"5155018"
"5158071"	"5164094"
"5188963"	"5192450"
"5207988"	"5212988"
"5223219"	"5225089"
"5229297"	"5234809"
"5247954"	"5259384"
"5296375")	.PN. OR
("5304487"	"5330916"
"5342931"	"5352777"
"5374522"	"5395592"
"5399486"	"5422241"
"5422271"	"5427663"
"5427946"	"5438129"
"5443890"	"5458761"
"5459699"	"5484537"
"5484573"	"5500071"
"5520715"	"5523058"
"5525041"	"5527460"
"5533401"	"5534054"
"5543305"	"5558837"
"5580435"	"5580794"
"5581286"	"5585069"
"5587128"	"5589136"
"5591490"	"5605662"
"5616701"	"5639423"
"5639428"	"5641400"
"5643738"	"5652141"
"5660993"	"5674742"
"5688406"	"5693785"
"5705018"	"5707799"
"5714380"	"5716852"
"5736100"	"5739432"
"5741639"	"5746978"
"5770029"	"5777141"
"5779985"	"5798215"
"5842787"	"5843767"
"5846727"	"5856174"
"5858188"	"5863502"

		"5863801" "5869004" "5874046" "5880071" "5882903" "5890802" "5921678" "5922591" "5928880" "5948673" "5955351" "5972710" "5976824" "6003388" "6010316" "6030581" "6042709" "6043080" "6068752" "6080295" "6090545" "6091406" "6100084" "6153073" "6156273" "6168948" "6197595" "6210128" "6244738" "6261431" "6277332" "6284113" "6361747" "6413783" "6515030" "RE31779" "Re33524").PN. OR ("2002/0009015" "2004/0264293" "2005/0132775" "2005/0150830" "2565159" "4983189" "5276376" "5395592" "5523058" "5688406" "5831166" "6003388" "6010316" "6210128" "6413783" "6440725" "6719449").URPN.				
S130	736140	(focus or foci for focused or vertex)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/07 15:43
S131	1176978	acoustic or sonic or ultrasonic or sound	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/07 15:44
S132	96099	S131 and S130	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/07 15:44
S133	162	S129 and S130	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/07 15:44
S134	100	S133 and (mm or cm)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/07 16:47

S135	35	S133 and ((mm or cm) same (focus or foci or focused or vortex))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/07 16:48
S136	696056	(focus or foci or focused or vertex)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/07 16:50
S137	1779117	S136 or S131	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/07 16:50
S138	360404	S137 and (mm or cm)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/07 16:51
S139	39718	((mm or cm) same (focus or foci or focused or vortex))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/07 16:51
S140	35625	S139 and S138	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/07 16:51
S141	2495	megasonic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/07 16:51
S142	2495	S141	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/07 16:51
S143	313	S141 and S136	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/07 16:51
S144	31	S141 and S136 and S139	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/07 16:52
S145	1	("6440725").PN.	US-PGPUB; USPAT	OR	OFF	2008/06/07 17:20

S146	3	gigasonic	US-PGPUB; USPAT	OR	OFF	2008/06/07 17:24
S147	73	(US-20050150830-\$ or US-20050132775-\$ or US-20040264293-\$ or US-20020009015-\$ or US-20070262676-\$ or US-20030000550-\$).did. or (US-6210128-\$ or US- 6003388-\$ or US- 5523058-\$ or US- 5395592-\$ or US- 5276376-\$ or US- 4983189-\$ or US- 7381241-\$ or US- 7340957-\$ or US- 7329039-\$ or US- 7275807-\$ or US- 7267659-\$ or US- 7267654-\$ or US- 7258674-\$ or US- 7232549-\$ or US- 7125387-\$ or US- 7118540-\$ or US- 7108137-\$ or US- 7105304-\$ or US- 7083117-\$ or US- 6948843-\$ or US- 6925856-\$ or US- 6914364-\$ or US- 6878540-\$ or US- 6869551-\$ or US- 6845778-\$ or US- 6808934-\$).did. or (US- 6773408-\$ or US- 6749406-\$ or US- 6748332-\$ or US- 6746104-\$ or US- 6666541-\$ or US- 6642061-\$ or US- 6612686-\$ or US- 6548308-\$ or US- 6284113-\$ or US- 6216538-\$ or US- 5858104-\$ or US- 5665141-\$ or US- 5591490-\$ or US- 5525041-\$ or US- 4339247-\$ or US- 4184094-\$ or US- 6938987-\$ or US- 5085783-\$ or US- 5158071-\$ or US- 5292686-\$ or US- 6572710-\$ or US- 6446296-\$ or US- 6719449-\$ or US-	OR	OFF	2008/12/07 08:38	

		6440725-\$ or US- 6413783-\$ or US- 6010316-\$ or US- 5831166-\$).did. or (US- 5688406-\$ or US- 2565159-\$ or US- 6946773-\$ or US- 6881541-\$ or US- 5834871-\$ or US- 5681396-\$ or US- 5286657-\$ or US- 4764905-\$ or US- 6802593-\$).did. or (US- 2632634-\$ or US- 3463321-\$ or US- 3066686-\$ or US- 2950725-\$ or US- 2855526-\$).did.				
S148	41553	(mm or cm) same (focus or foci or focused or vortex)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/07 08:39
S149	742936	(focus or foci or focused or vortex)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/07 08:39
S150	460255	(kilohertz or khz or megahertz or mhz or \$5hertz)	US-PGPUB; USPAT	AND	ON	2008/12/07 08:40
S151	635179	(kilohertz or khz or megahertz or mhz or \$5hertz or \$1hz)	US-PGPUB; USPAT	AND	ON	2008/12/07 08:40
S152	99527	(kilohertz or khz or megahertz or mhz or \$5hertz or \$1hz) and (focus or foci or focused or vortex)	US-PGPUB; USPAT	AND	ON	2008/12/07 08:41
S153	442631	(kilohertz or khz or megahertz or mhz or \$5hertz or \$1hz) and (focus or foci or focused or vortex or point)	US-PGPUB; USPAT	AND	ON	2008/12/07 08:41
S154	406695	acoustic or acousti!4 or sonic or sonic\$4 or \$5sonic	US-PGPUB; USPAT	AND	ON	2008/12/07 08:42
S155	83569	S153 and S154	US-PGPUB; USPAT	AND	ON	2008/12/07 08:43
S156	47033	S155 and (fluid or liquid)	US-PGPUB; USPAT	AND	ON	2008/12/07 08:44
S157	51	S155 and (fluid or liquid) and S147	US-PGPUB; USPAT	AND	ON	2008/12/07 08:47

S161	4260152	"50" or "100"	US-PGPUB; USPAT	OR	ON	2008/12/07 08:49
S162	4489578	"25" "75" "100"	US-PGPUB; USPAT	OR	ON	2008/12/07 08:51
S163	5316472	"20" "30" "40" "50"	US-PGPUB; USPAT	OR	ON	2008/12/07 08:52
S164	3496895	"60" "70" "80" "90"	US-PGPUB; USPAT	OR	ON	2008/12/07 08:52
S165	442631	(kilohertz or khz or megahertz or mhz or \$5hertz or \$1hz) and (focus or foci or focused or vortex or point)	US-PGPUB; USPAT	AND	ON	2008/12/07 08:53
S166	406694	acoustic or acoust!4 or sonic or sonic\$4 or \$5sonic	US-PGPUB; USPAT	AND	ON	2008/12/07 08:53
S167	83569	S165 and S166	US-PGPUB; USPAT	AND	ON	2008/12/07 08:53
S168	47033	S167 and (fluid or liquid)	US-PGPUB; USPAT	AND	ON	2008/12/07 08:53
S169	45194	S168 and S162	US-PGPUB; USPAT	AND	ON	2008/12/07 08:54
S170	46590	S168 and S163	US-PGPUB; USPAT	AND	ON	2008/12/07 08:54
S171	40868	S168 and S164	US-PGPUB; USPAT	AND	ON	2008/12/07 08:54
S172	4489578	"25" "75" "100"	US-PGPUB; USPAT	OR	ON	2008/12/07 08:55
S173	4792458	S172 near\$1 (kilohertz or khz or megahertz or mhz or \$5hertz or \$1hz)	US-PGPUB; USPAT	OR	ON	2008/12/07 08:55
S174	442631	(kilohertz or khz or megahertz or mhz or \$5hertz or \$1hz) and (focus or foci or focused or vortex or point)	US-PGPUB; USPAT	AND	ON	2008/12/07 08:56
S175	406701	acoustic or acoust!4 or sonic or sonic\$4 or \$5sonic	US-PGPUB; USPAT	AND	ON	2008/12/07 08:56
S176	83569	S174 and S175	US-PGPUB; USPAT	AND	ON	2008/12/07 08:56
S177	47033	S176 and (fluid or liquid)	US-PGPUB; USPAT	AND	ON	2008/12/07 08:56
S178	4260152	"50" or "100"	US-PGPUB; USPAT	OR	ON	2008/12/07 08:56
S179	4489578	"25" "75" "100"	US-PGPUB; USPAT	OR	ON	2008/12/07 08:56

S180	442631	(kilohertz or khz or megahertz or mhz or \$5hertz or \$1hz) and (focus or foci or focused or vortex or point)	US-PGPUB; USPAT	AND	ON	2008/12/07 08:57
S181	406701	acoustic or acousti!4 or sonic or sonic\$4 or \$5sonic	US-PGPUB; USPAT	AND	ON	2008/12/07 08:57
S182	83569	S180 and S181	US-PGPUB; USPAT	AND	ON	2008/12/07 08:57
S183	47033	S182 and (fluid or liquid)	US-PGPUB; USPAT	AND	ON	2008/12/07 08:57

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